Receipt

Practitioner's Docket No. 03039PCT

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of: Nippon Valqua Industries, Ltd.

Serial No.: 10/549,394 Filed: September 14, 2005

For: Sealing material for ant groove

Examiner:

Art Unit: 3673

Confirmation No.: 1632

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Respective Request For Corrected Filing Receipt

This is a respective request for a Corrected Filing Receipt.

There are two errors on the filing receipt.

The first error is that the number of independent claims is listed as two. However, there is only one independent claim in this case.

The second error is that the name "NIPPON" should be in all upper case.

As to the above, please find enclosed:

- 1. A marked up copy of the filing receipt (three pages);
- 2. A copy of the Article 34 Amendments (three pages); and
- 3. A copy of the Notice Of Recordation Of Assignment Document (two pages).

{18924.DOC}

I hereby certify that this correspondence and the documents referred to as enclosed therein are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA, 22313-1450, on February 27, 2006 by applicant's attorney Robert J. Jacobson.

obert J. Jacobson, Reg. No. 32,419

(Respective Request For Corrected Filing Receipt-page 1 of 2)

Thank you very much.

Respectfully submitted,

Date: 2-27-2006

Reg. No. 32,419

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FILING OR 371 FIL FEE REC'D TOT CLMS IND CLMS **ART UNIT** ATTY.DOCKET NO DRAWINGS APPL NO. (c) DATE 1260 03039PCT 5 5 10/549.394 10/17/2005 3673

23165 ROBERT J JACOBSON PA 650 BRIMHALL STREET SOUTH ST PAUL, MN 551161511 CONFIRMATION NO. 1632
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OC000000017953095*

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Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s) The case patternesses

Kazuaki Tsuji, Gojo-shi, JAPAN; Tsutomu Yoshida, Gojo-shi, JAPAN;

Assignment For Published Patent Application

NIPPONVALQUA INDUSTRIES, LTD.

NIPPON

Power of Attorney: The patent practitioners associated with Customer Number 23165.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/04323 03/26/2004

Foreign Applications

If Required, Foreign Filing License Granted: 01/31/2006

रुद्रम् च वेद्ये स्टब्स् क्षणमुख्यक

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US10/549,394

Projected Publication Date: 05/11/2006

Non-Publication Request: No

Early Publication Request: No

Title

Sealing material for ant groove

Preliminary Class

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CLAIMS

- 1. (Cancelled)
- 5 2. (Cancelled)
 - 3. (Cancelled)
 - 4. (Cancelled)

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- 5. (Cancelled)
- 6. (Added) A sealing material for an ant groove, which is fitted to the ant groove made in a surface of either one of members in a joint place between these
 15 members and contacts with a surface of the other member, thereby sealing both the members,

with the sealing material comprising:

an elastically deformable material; and

a sectional shape having: a straight bottom edge which is disposed on a bottom face of said ant groove; an arched convex edge which contacts with the surface of said other member facing said ant groove; a first projecting edge which connects with one end of said bottom edge and projects outside; a concave inlet portion which is located between said first projecting edge and said arched convex edge; a second projecting edge which connects with the other end of said straight bottom edge and is composed of straight lines that project outside; a straight sloping edge of which one end connects with the opposite end of said arched convex edge as to said first projecting edge and of which the other end connects with said second projecting edge; and at least one corner portion which is constituted in the range of from said

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straight bottom edge via said second projecting edge to said sloping edge;

wherein: when the sealing material for the ant groove is fitted to said ant groove, said concave inlet portion is disposed on an opening edge of the ant groove, and then the entirety of the sealing material for the ant groove is made to gyrate toward the inside of the ant groove around said concave inlet portion as the base point, so that the sealing material for the ant groove gets pressed into the ant groove in a state where the periphery of said corner portion is elastically deformed.

- (Added) A sealing material for an ant groove according to claim 6,
 wherein the maximum value X of distances of from said corner portion to said concave inlet portion has a relationship of X/B = 1.00-1.10 with an opening width B of said ant groove.
- 8. (Added) A sealing material for an ant groove according to claim 6 or 7, wherein:

said second projecting edge is formed by connecting a pair of straight edges together in a convexly crooked shape; and

said corner portion is constituted in the following three places: a place between said straight bottom edge and said second projecting edge; a crooked place of said second projecting edge; and a place between said second projecting edge and said sloping edge.

- 9. (Added) A sealing material for an ant groove according to any one of claims 6 to 8, which:
- further comprises a vertical edge connecting said arched convex edge and said concave inlet portion together; and

makes a clearance between said vertical edge and an opening edge of said ant groove when fitted to said ant groove.

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10. (Added) A sealing material for an ant groove according to claim 6; which:

is fitted to said ant groove of a ring shape in a ring shape corresponding to said ant groove of the ring shape;

has a location such that said first projecting edge and said concave inlet portion are located at the outer peripheral side of said ring shape;

has a location such that said second projecting edge, said straight sloping edge, and said corner portion are located at the inner peripheral side of said ring shape; and

has a peripheral length extended by 1-10 % in a state fitted to said ant groove of the ring shape when compared with a free state.





UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 12, 2005

PTAS

700217753A

ROBERT J. JACOBSON 650 BRIMHALL STREET SOUTH ST. PAUL, MN 55116-1511

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 03039PCT

ASSIGNOR:

TSUJI, KAZUAKI

DOC DATE: 09/26/2005

ASSIGNOR:

YOSHIDA, TSUTOMU

DOC DATE: 09/26/2005

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016880/0401 PAGE 2

SERIAL NUMBER: 10549394

FILING DATE: ISSUE DATE:

PATENT NUMBER:

TITLE: SEALING MATERIAL FOR ANT GROOVE

LENELL MACKALL, SUPERVISOR ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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